LE LABORATOIRE DU BACTÉRIOPHAGE founded by
[redacted] Professeur d'HERELLE

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Paris (15e) le April 4,1952

Mr.Dr.J. Lederberg
Associate Professor of Genetics
University of Wisconsin
Madison 6, Wisconsin.

Dear Professor Lederberg:

I have received your kind letter dated March 20,1952, which was transmitted to me by Pasteur Institute of Paris,and I shall be pleased to maintain the good relations with you.

I am happy to announce you,that on April 2nd I sent you one little post-parcel containing:

- 3 bacterial strains of Salmonella typhi (our n°372- 377- 383).

- 4 ampules with our Phage φVIII-113 freshly propagated with strain 377 (2 ampules designed "Phage φVIII-113 Sertic-Boulgakov 1936"), and with strain 372 (2 ampules designed "Phage φVIII-113 -passage strain 372")

Phage φ VIII-113.
The principal characters are described in our paper of 1936 enclosed and designed with red (A) ; on the table attached on this reprint the phage is also red underlined.

Composition of broth :
Phage φ VIII-113 requires no special chemical composition of culture medium. Ordinary peptone broth :

- beef extract	5 gr
- peptone-Bacto	10 -
- sodium chloride	2,gr5
- water	1.000 gr

is advisable for the work.

We employed this simple formula:

- beef extract	3 gr
- dried yeast extract	3 -
- peptone powder	10 -
- sodium chloride	0 - (no salt)
- water	1.000 -

pH = 7,6 - 7,8

For the hard medium add 12 gr. of agar-agar.

Bacterial strains.
Strain n°377 is Salmonella typhi var. "H.90I" of Felix, it is very convenient for the propagation of Phage.

Strain n°372 is Salmonella typhi var. "Rough" of Sertic-Boulgakov, it shows clearly immobility action of Phage after six hours' incubation.

Strain n°383 is Salmonella typhi "6.396 Vβ "of Felix, it gives a higher titer of Phage-corpuscles as others two overnamed strains.

Received 4/24/52.

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Propagation of Phage φ VIII-113.

Prepare 2 test tubes containing each 10 ml of fresh broth-suspensions of Salmonellae (about 200 millions of bacilli per 1 ml). Take strains 377 or 383.

Test tube n° 1 is considered as control (normal broth culture of Salmonella).

Test tube n°2 is added with 0,1 ml of Phage (from original ampules).

Incubate at 36° - 37° C. for 24 hours.

After this time the test tube n°2, containing Phage-culture, is never entirely clear (there is general rule for the purified races of phages).

Filter this broth-culture through Chamberland Filter Candle L 5 or medium-sized Pyrex sintered glass filter.

Dispense in small ampules or bottles.

Test of sterility.

There is the original filtrate containing the Phage φ VIII-113.

Immobility action of Phage.

After 3 - 6 - 9 - 12 - 24 hours'incubation the hanging drop preparations may be made from both test tubes n° 1 and 2.

Immobility action of Phage is well pronnounced after six hours'incubation with strains 372 and 383. This time so as intensity of action (i.e. percentage of non-motile and motile bacilli) may be different with other Salmonella strains.

Do not hesitate to let me know if the cultures fail to reach you in satisfactory condition.

Hoping that my consignment will give you satisfaction I shall be very happy to know the results.

I enclose for you many copies of reprints of phage work from our laboratory.

Sincerely yours

Nicholas A. Boulgakov

Nicholas A. BOULGAKOV M.D.
Bacteriologiste in charge.